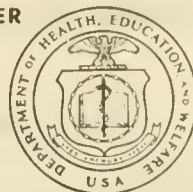


F52.6019:16/25

NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality



Vol. 16, No. 25

WEEKLY
REPORT

Week Ending
June 24, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORTS COMMON SOURCE OUTBREAK OF INFECTIOUS HEPATITIS - Tennessee

Among 10 persons who ate a common meal in a private home in Memphis, Tennessee, on April 13, 1967, eight developed viral hepatitis. The luncheon group included the hostess, her husband and daughter, and seven female guests. Both the husband and daughter and six of the seven female guests developed symptoms compatible with hepatitis. Seven of the eight ill persons had jaundice and/or scleral icterus. Time intervals between the meal and onset of symptoms in these patients ranged from 25 to 33 days (Figure 1). The eighth person, felt to have anicteric hepatitis, had onset of illness 42 days after the meal.

CONTENTS

Epidemiologic Note and Reports	
Common Source Outbreak of Infectious Hepatitis - Tennessee	201
Surveillance Summary	
Malaria - 1966	202
Reported Cases of Infectious Syphilis - May 1967	203

The ages of the ill persons ranged from 23 to 52 years.

An additional case of hepatitis occurred in a 21-year-old male friend of the host family who visited in the home during the same week the luncheon was held. His illness began 33 days after the meal. He did admit having eaten at the home, but could not recall specific food

(Continued on page 202)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

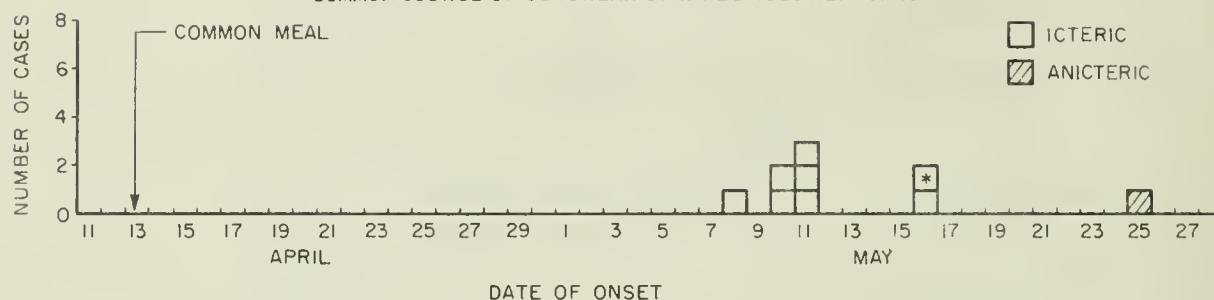
DISEASE	25th WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 25 WEEKS		
	JUNE 24, 1967	JUNE 25, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	57	46	37	849	722	696
Brucellosis	8	5	7	124	100	163
Diphtheria	3	4	4	52	76	133
Encephalitis, primary:						
Arthropod-borne and unspecified	35	37	---	634	625	---
Encephalitis, post-infectious	31	16	---	448	430	---
Hepatitis, serum	64	23	---	984	623	---
Hepatitis, infectious	678	542	577	19,137	16,456	20,850
Malaria	52	10	2	963	143	43
Measles (rubeola)	786	3,225	8,801	53,824	175,960	328,026
Meningococcal infections, total	34	59	50	1,379	2,289	1,555
Civilian	28	57	---	1,275	2,035	---
Military	6	2	---	104	254	---
Poliomyelitis, total	1	1	2	11	13	38
Paralytic	---	1	1	9	12	30
Rubella (German measles)	1,230	775	---	35,968	37,885	---
Streptococcal sore throat & scarlet fever	6,038	6,762	5,029	271,737	259,719	239,869
Tetanus	5	1	7	85	67	107
Tularemia	3	2	5	67	70	114
Typhoid fever	6	16	10	182	149	172
Typhus, tick-borne (Rky. Mt. spotted fever)	13	17	15	79	72	57
Rabies in animals	80	90	90	2,234	2,181	2,178

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax	2	Rabies in man	---
Botulism	---	Rubella, Congenital Syndrome: Colo.-1, Pa.-2	6
Leptospirosis: La.-1	18	Trichinosis	37
Plague	---	Typhus, murine: Tex.-1	18
Psittacosis: N.J.-2	22	Polio, Unsp: Calif.-1	2

INFECTIOUS HEPATITIS — (Continued from front page)

Figure 1
COMMON SOURCE OF OUTBREAK OF INFECTIOUS HEPATITIS



* DID NOT EAT SPECIFIC MEAL BUT ATE IN HOME DURING SAME WEEK.

items eaten. Through June 20, no secondary cases have been reported.

The meal consisted of packaged ham (cooked and sliced at home), beef consomme, rolls, avocado, grape and cottage cheese salad, frozen raspberries served over sponge cake, beer, and a gin drink. All foods were prepared by the hostess except for the salad which was contributed by one of the guests.

Each of the persons who attended the luncheon ate all foods served except for the two beverages. However, there was no significant difference among ill persons who drank or did not drink a specific beverage. The hostess denied known exposure to a hepatitis case. Liver function tests done on the hostess after recognition of the outbreak

were normal. Five children in the host family who did not eat any of the foods served at the luncheon remained well. Inspection of the home failed to disclose sewage problems or water contamination.

The cluster of cases described here most likely represents a common source outbreak of infectious hepatitis. One of the foods served at the luncheon probably was the responsible vehicle; however, food histories do not permit incrimination of a specific item.

(Reported by Dr. Cecil B. Tucker, Director, Division of Preventable Diseases, Tennessee Department of Public Health; and Dr. Robert C. Rendtorff, Director, Division of Communicable Diseases, Memphis and Shelby County Health Department.)

ANNUAL SURVEILLANCE SUMMARY MALARIA — 1966

The Malaria Surveillance Unit of the National Communicable Disease Center has received epidemiologic information on 678 cases of malaria with onset of illness in 1966 in the United States and Puerto Rico. This is the largest number of malaria cases recorded in the U.S. for any year since 1954. Military personnel (including recently discharged veterans) accounted for 563 cases, and 115 cases occurred among non-military persons (civilians). While the number of civilian cases is comparable to those in the previous 2 years, the number of military-associated cases has shown a tenfold increase (Table 1). Of the 678 cases, all but 5 were in patients who were infected abroad. These five cases include two introduced, one congenital, one induced, and one cryptic.

No established seasonal pattern was discernible due to the increase in military cases as the year progressed (Figure 2). Although malaria patients had onset of illness in all but eight of the states, the geographic distribution of cases shows concentrations in California, Georgia, Kentucky, New York, North Carolina, Pennsylvania and Texas due primarily to the location of military centers.

The age distribution showed a marked concentration in the 20- to 29-year age group, reflecting the large number

of military cases. Malaria cases in females were reported only in the non-military group, of which they comprised 23.5 percent.

As shown in Table 2, the plasmodium species was identified in 636 of the total 678 cases (93.8 percent). *P. vivax* was diagnosed in 56 percent and *P. falciparum* in 33 percent of the infected individuals. This compares with

Table 1
Military and Civilian Cases of Malaria
United States 1956-1966*

Year	Military	Civilian	Total
1957	56	45	101
1958	33	37	70
1959	12	38	50
1960	21	41	62
1961	45	37	82
1962	75	40	115
1963	58	90	148
1964	52	119	171
1965	51	105	156
1966	563	115	678

*Onset of illness in the United States and Puerto Rico.

Figure 2
MILITARY AND CIVILIAN CASES OF MALARIA
DIAGNOSED IN THE UNITED STATES DURING 1966
BY MONTH OF ONSET

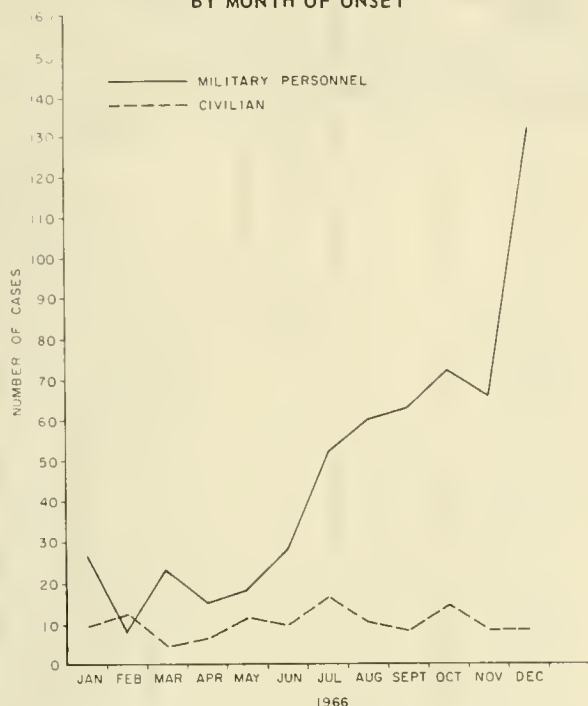


Table 2
Cases of Malaria by Plasmodium Species
United States - 1966

Species	Total	Percent
<i>P. vivax</i>	382	56.3
<i>P. falciparum</i>	221	32.6
<i>P. malariae</i>	12	1.8
<i>P. ovale</i>	13	1.9
Mixed Infections	8	1.2
Undetermined	42	6.2
Total	678	100.0

65 percent and 27 percent, respectively, in 1965. The number of cases due to *P. ovale* increased to 13 from the 4 cases notified in 1964 and the 5 in 1965. Only 12 cases of *P. malariae* were reported, as compared with 8 in 1964 and 13 in 1965.

Onset of illness occurred more than 30 days after arrival in the U.S. in 56 percent of the 540 cases for which both date of onset and date of arrival are known. A marked difference in this interval is apparent in *vivax* and *falciparum* malaria: 79 percent of the *falciparum* cases occurred within one month after arrival as compared with only 27 percent of the *vivax* cases.

(Continued on page 208)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS MAY 1967 AND MAY 1966

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas May 1967 and May 1966 - Provisional Data

Reporting Area	MAY		Cumulative JAN - MAY		Reporting Area	MAY		Cumulative JAN - MAY	
	1967	1966	1967	1966		1967	1966	1967	1966
NEW ENGLAND.....	40	42	164	206	EAST SOUTH CENTRAL.....	179	177	772	939
Maine.....	-	1	-	4	Kentucky.....	17	11	55	52
New Hampshire.....	-	1	5	5	Tennessee.....	19	15	108	117
Vermont.....	-	-	2	1	Alabama.....	110	109	448	508
Massachusetts.....	22	28	99	138	Mississippi.....	33	42	161	262
Rhode Island.....	7	4	15	15	WEST SOUTH CENTRAL.....	295	228	1,277	1,084
Connecticut.....	11	8	43	43	Arkansas.....	15	3	60	66
MIDDLE ATLANTIC.....	285	310	1,453	1,766	Louisiana.....	58	58	262	273
Upstate New York.....	32	23	118	165	Oklahoma.....	15	7	57	60
New York City.....	174	190	873	1,124	Texas.....	207	160	898	685
Pa. (Excl. Phila.).....	14	12	104	88	MOUNTAIN.....	44	38	254	165
Philadelphia.....	10	22	103	109	Montana.....	1	2	4	18
New Jersey.....	55	63	255	280	Idaho.....	1	-	-	1
EAST NORTH CENTRAL.....	262	280	1,350	1,296	Wyoming.....	3	-	-	-
Ohio.....	51	46	280	243	Colorado.....	7	5	37	22
Indiana.....	9	14	46	36	New Mexico.....	10	6	68	33
Downstate Illinois.....	17	15	69	85	Arizona.....	16	20	113	78
Chicago.....	76	87	407	426	Utah.....	3	-	4	4
Michigan.....	108	106	533	456	Nevada.....	3	5	8	9
Wisconsin.....	1	12	15	50	PACIFIC.....	125	96	762	761
WEST NORTH CENTRAL.....	29	30	112	186	Washington.....	5	-	27	17
Minnesota.....	7	4	19	11	Oregon.....	6	2	20	20
Iowa.....	2	6	12	28	California.....	113	93	709	713
Missouri.....	8	11	36	84	Alaska.....	-	1	1	3
North Dakota.....	-	-	1	4	Hawaii.....	1	-	5	8
South Dakota.....	3	3	14	22	U. S. TOTAL.....	1,726	1,716	8,621	9,059
Nebraska.....	6	4	16	18	TERRITORIES.....	84	81	381	407
Kansas.....	3	2	14	19	Puerto Rico.....	80	78	361	397
SOUTH ATLANTIC.....	467	515	2,477	2,656	Virgin Islands.....	4	3	20	10
Delaware.....	10	5	24	15					
Maryland.....	45	41	262	221					
District of Columbia.....	59	38	272	190					
Virginia.....	18	21	117	124					
West Virginia.....	1	4	7	25					
North Carolina.....	56	75	283	405					
South Carolina.....	67	89	363	402					
Georgia.....	58	77	371	445					
Florida.....	153	165	778	829					

Note: Cumulative Totals include revised and delayed reports through previous months.

FOR WEEKS ENDED

[illegible]

Morbidity and Mortality Weekly Report

205

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 24, 1967 AND JUNE 25, 1966 (25th WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)		MENINGOCOCCAL INFECTIONS, TOTAL				POLIOMYELITIS			RUBELLA
		1967	Cumulative		1967	Cumulative		Total	Paralytic		
			1967	1966		1967	1966	1967	1967	Cum. 1967	
UNITED STATES...	52	786	53,824	175,960	34	1,379	2,289	1	-	9	1,230
NEW ENGLAND.....	2	25	756	2,096	-	57	105	-	-	-	248
Maine.....	-	7	221	189	-	3	8	-	-	-	21
New Hampshire.....	-	-	71	60	-	2	9	-	-	-	21
Vermont.....	-	-	41	218	-	-	3	-	-	-	14
Massachusetts.....	2	13	282	733	-	29	42	-	-	-	67
Rhode Island.....	-	-	60	72	-	4	12	-	-	-	24
Connecticut.....	-	5	81	824	-	19	31	-	-	-	101
MIDDLE ATLANTIC.....	2	38	1,991	17,433	5	210	260	-	-	2	110
New York City.....	-	9	368	8,078	1	36	36	-	-	1	26
New York, Up-State..	-	17	442	2,261	1	51	75	-	-	-	84
New Jersey.....	-	6	462	1,823	2	80	73	-	-	-	-
Pennsylvania.....	2	6	719	5,271	1	43	76	-	-	1	-
EAST NORTH CENTRAL...	2	151	4,841	64,020	8	176	362	-	-	-	219
Ohio.....	-	47	1,089	6,071	-	62	97	-	-	-	12
Indiana.....	2	12	550	5,237	-	21	63	-	-	-	17
Illinois.....	-	28	845	11,003	3	43	71	-	-	-	31
Michigan.....	-	19	852	12,397	4	38	97	-	-	-	65
Wisconsin.....	-	45	1,505	29,312	1	12	34	-	-	-	94
WEST NORTH CENTRAL...	1	19	2,666	8,311	1	63	128	-	-	-	14
Minnesota.....	1	3	114	1,613	-	15	31	-	-	-	2
Iowa.....	-	2	725	5,115	-	12	18	-	-	-	7
Missouri.....	-	2	300	506	-	12	51	-	-	-	3
North Dakota.....	-	2	782	964	1	1	7	-	-	-	2
South Dakota.....	-	-	47	38	-	6	4	-	-	-	-
Nebraska.....	-	10	606	75	-	11	8	-	-	-	-
Kansas.....	-	-	92	NN	-	6	9	-	-	-	-
SOUTH ATLANTIC.....	25	130	6,344	13,804	6	264	374	-	-	1	84
Delaware.....	-	3	40	237	-	5	4	-	-	-	5
Maryland.....	-	8	127	2,015	1	32	37	-	-	1	12
Dist. of Columbia..	-	-	20	371	-	9	9	-	-	-	-
Virginia.....	-	40	1,930	1,779	-	27	48	-	-	-	18
West Virginia.....	-	17	1,297	4,816	1	20	12	-	-	-	16
North Carolina.....	25	9	834	358	3	53	93	-	-	-	-
South Carolina.....	-	8	486	608	-	24	43	-	-	-	11
Georgia.....	-	-	29	230	-	43	55	-	-	-	-
Florida.....	-	45	1,581	3,390	1	51	73	-	-	-	22
EAST SOUTH CENTRAL...	18	86	4,850	18,536	1	116	202	-	-	1	104
Kentucky.....	18	60	1,254	4,524	1	34	77	-	-	-	82
Tennessee.....	-	22	1,671	11,524	-	47	66	-	-	-	22
Alabama.....	-	1	1,278	1,559	-	23	42	-	-	-	-
Mississippi.....	-	3	647	929	-	12	17	-	-	1	-
WEST SOUTH CENTRAL...	-	127	16,561	22,297	3	197	336	-	-	5	8
Arkansas.....	-	1	1,400	955	1	25	28	-	-	-	-
Louisiana.....	-	-	143	87	1	78	128	-	-	-	-
Oklahoma.....	-	5	3,311	457	-	13	18	-	-	1	-
Texas.....	-	121	11,707	20,798	1	81	162	-	-	4	8
MOUNTAIN.....	-	92	4,143	10,858	-	25	73	-	-	-	102
Montana.....	-	6	268	1,721	-	-	4	-	-	-	4
Idaho.....	-	3	359	1,320	-	1	5	-	-	-	-
Wyoming.....	-	-	68	129	-	1	5	-	-	-	-
Colorado.....	-	45	1,383	1,096	-	10	37	-	-	-	48
New Mexico.....	-	11	552	1,062	-	3	10	-	-	-	-
Arizona.....	-	22	922	5,027	-	4	8	-	-	-	50
Utah.....	-	5	322	464	-	4	-	-	-	-	-
Nevada.....	-	-	269	39	-	2	4	-	-	-	-
PACIFIC.....	2	118	11,672	18,605	10	271	449	1	-	-	341
Washington.....	1	25	5,356	3,324	-	24	35	-	-	-	7
Oregon.....	-	9	1,469	1,344	-	24	29	-	-	-	27
California.....	1	72	4,595	13,642	9	212	366	1	-	-	295
Alaska.....	-	2	126	189	1	9	15	-	-	-	3
Hawaii.....	-	10	126	106	-	2	4	-	-	-	9
Puerto Rico.....	2	50	1,917	2,222	-	9	8	-	-	-	3

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 24, 1967 AND JUNE 25, 1966 (25th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	6,038	5	85	3	67	6	182	13	79	80	2,234
NEW ENGLAND.....	1,070	-	-	-	-	-	2	-	-	3	53
Maine.....	35	-	-	-	-	-	-	-	-	-	13
New Hampshire.....	35	-	-	-	-	-	-	-	-	3	31
Vermont.....	39	-	-	-	-	-	-	-	-	-	7
Massachusetts.....	181	-	-	-	-	-	2	-	-	-	1
Rhode Island.....	74	-	-	-	-	-	-	-	-	-	1
Connecticut.....	706	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	154	-	7	-	-	3	19	6	13	2	42
New York City.....	16	-	3	-	-	-	9	-	-	-	-
New York, Up-State.....	117	-	1	-	-	1	6	3	4	2	33
New Jersey.....	NN	-	1	-	-	1	2	3	5	-	-
Pennsylvania.....	21	-	2	-	-	1	2	-	4	-	9
EAST NORTH CENTRAL...	484	-	10	-	8	-	11	-	5	16	218
Ohio.....	45	-	1	-	-	-	4	-	4	7	87
Indiana.....	84	-	2	-	1	-	1	-	1	1	36
Illinois.....	101	-	5	-	7	-	1	-	-	4	47
Michigan.....	185	-	2	-	-	-	4	-	-	1	19
Wisconsin.....	69	-	-	-	-	-	1	-	-	3	29
WEST NORTH CENTRAL...	307	1	5	2	14	-	5	-	1	19	503
Minnesota.....	8	-	2	-	-	-	1	-	-	3	96
Iowa.....	76	-	-	-	1	-	2	-	-	2	60
Missouri.....	6	1	3	1	4	-	-	-	1	4	101
North Dakota.....	94	-	-	-	-	-	-	-	-	6	87
South Dakota.....	30	-	-	-	1	-	-	-	-	2	70
Nebraska.....	28	-	-	-	-	-	1	-	-	-	32
Kansas.....	65	-	-	1	8	-	1	-	-	2	57
SOUTH ATLANTIC.....	1,249	-	19	-	7	-	17	4	28	11	294
Delaware.....	15	-	-	-	-	-	-	-	-	-	-
Maryland.....	216	-	-	-	-	-	2	3	5	-	-
Dist. of Columbia..	1	-	-	-	-	-	1	-	-	-	-
Virginia.....	139	-	4	-	-	-	2	-	7	5	148
West Virginia.....	174	-	-	-	1	-	1	-	-	1	49
North Carolina.....	43	-	5	-	-	-	2	-	12	-	3
South Carolina.....	461	-	1	-	2	-	3	1	3	-	-
Georgia.....	9	-	3	-	3	-	2	-	1	3	62
Florida.....	191	-	6	-	1	-	4	-	-	2	32
EAST SOUTH CENTRAL...	646	-	17	-	7	1	27	2	13	12	470
Kentucky.....	50	-	-	-	1	-	13	1	5	3	99
Tennessee.....	507	-	8	-	4	-	5	-	4	8	335
Alabama.....	75	-	7	-	-	1	6	1	4	1	34
Mississippi.....	14	-	2	-	2	-	3	-	-	-	2
WEST SOUTH CENTRAL...	512	-	14	1	21	2	22	1	7	15	463
Arkansas.....	2	-	4	1	8	2	7	-	1	-	64
Louisiana.....	3	-	3	-	2	-	11	-	-	2	39
Oklahoma.....	30	-	-	-	8	-	-	1	4	8	142
Texas.....	477	-	7	-	3	-	4	-	2	5	218
MOUNTAIN.....	728	-	-	-	7	-	15	-	6	1	71
Montana.....	38	-	-	-	1	-	1	-	-	-	-
Idaho.....	32	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	2	-	-	-	-	-	4
Colorado.....	415	-	-	-	1	-	11	-	6	-	8
New Mexico.....	127	-	-	-	-	-	-	-	-	-	21
Arizona.....	38	-	-	-	-	-	3	-	-	-	36
Utah.....	78	-	-	-	3	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	1	2
PACIFIC.....	888	4	13	-	3	-	64	-	6	1	120
Washington.....	105	-	-	-	2	-	-	-	1	-	-
Oregon.....	38	-	1	-	-	-	-	-	-	-	1
California.....	674	4	10	-	1	-	61	-	5	1	119
Alaska.....	54	-	-	-	-	-	-	-	-	-	-
Hawaii.....	17	-	2	-	-	-	3	-	-	-	-
Puerto Rico.....	5	1	7	-	-	-	4	-	-	-	20

Morbidity and Mortality Weekly Report

207

Week No.
25

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JUNE 24, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	778	469	23	37	SOUTH ATLANTIC:	1,095	569	36	68
Boston, Mass.-----	299	155	12	16	Atlanta, Ga.-----	135	63	2	8
Bridgeport, Conn.-----	44	28	2	-	Baltimore, Md.-----	233	116	5	20
Cambridge, Mass.-----	27	16	-	-	Charlotte, N. C.-----	40	16	-	3
Fall River, Mass.-----	29	23	-	-	Jacksonville, Fla.-----	58	28	-	5
Hartford, Conn.-----	65	37	-	5	Miami, Fla.-----	96	52	-	3
Lowell, Mass.-----	25	13	-	2	Norfolk, Va.-----	56	29	3	5
Lynn, Mass.-----	20	11	-	-	Richmond, Va.-----	66	37	1	2
New Bedford, Mass.-----	19	14	1	1	Savannah, Ga.-----	40	22	2	1
New Haven, Conn.-----	46	30	1	2	St. Petersburg, Fla.-----	74	64	7	2
Providence, R. I.-----	60	45	-	2	Tampa, Fla.-----	62	34	6	8
Somerville, Mass.-----	18	13	1	-	Washington, D. C.-----	189	90	6	6
Springfield, Mass.-----	43	27	-	3	Wilmington, Del.-----	46	18	4	5
Waterbury, Conn.-----	32	22	-	4					
Worcester, Mass.-----	51	35	6	2	EAST SOUTH CENTRAL:	565	311	31	22
MIDDLE ATLANTIC:	3,251	1,908	111	144	Birmingham, Ala.-----	76	47	-	3
Albany, N. Y.-----	39	24	1	2	Chattanooga, Tenn.-----	54	30	5	-
Allentown, Pa.-----	36	20	-	2	Knoxville, Tenn.-----	39	28	3	1
Buffalo, N. Y.-----	154	92	3	6	Louisville, Ky.-----	141	72	16	7
Camden, N. J.-----	42	20	-	2	Memphis, Tenn.-----	106	57	1	4
Elizabeth, N. J.-----	37	23	2	-	Mobile, Ala.-----	42	23	1	4
Erie, Pa.-----	49	33	3	4	Montgomery, Ala.-----	40	22	2	-
Jersey City, N. J.-----	72	40	5	7	Nashville, Tenn.-----	67	32	3	3
Newark, N. J.-----	83	43	4	3	WEST SOUTH CENTRAL:	1,062	567	24	58
New York City, N. Y.-----	1,639	923	48	74	Austin, Tex.-----	33	23	1	-
Paterson, N. J.-----	38	23	-	1	Baton Rouge, La.-----	26	15	-	-
Philadelphia, Pa.-----	411	248	17	18	Corpus Christi, Tex.-----	12	6	-	1
Pittsburgh, Pa.-----	251	151	7	8	Dallas, Tex.-----	150	83	1	7
Reading, Pa.-----	58	38	3	6	El Paso, Tex.-----	31	18	3	3
Rochester, N. Y.-----	120	82	12	6	Fort Worth, Tex.-----	61	31	-	7
Schenectady, N. Y.-----	21	16	2	-	Houston, Tex.-----	202	96	3	8
Scranton, Pa.-----	38	27	1	3	Little Rock, Ark.-----	47	29	1	3
Syracuse, N. Y.-----	58	36	-	1	New Orleans, La.-----	159	78	4	8
Trenton, N. J.-----	45	29	2	-	Oklahoma City, Okla.-----	78	39	2	8
Utica, N. Y.-----	27	22	1	1	San Antonio, Tex.-----	123	67	2	6
Yonkers, N. Y.-----	33	18	-	-	Shreveport, La.-----	67	37	2	4
EAST NORTH CENTRAL:	2,618	1,508	66	127	Tulsa, Okla.-----	73	45	5	3
Akron, Ohio-----	59	32	-	4	MOUNTAIN:	397	227	12	24
Canton, Ohio-----	40	25	2	-	Albuquerque, N. Mex.-----	43	25	-	2
Chicago, Ill.-----	670	351	21	40	Colorado Springs, Colo.-----	27	22	5	2
Cincinnati, Ohio-----	169	104	2	11	Denver, Colo.-----	117	56	2	8
Cleveland, Ohio-----	253	151	5	7	Ogden, Utah-----	20	11	1	-
Columbus, Ohio-----	111	64	2	6	Phoenix, Ariz.-----	93	55	1	6
Dayton, Ohio-----	93	59	2	4	Pueblo, Colo.-----	17	12	-	-
Detroit, Mich.-----	367	225	6	12	Salt Lake City, Utah-----	42	26	2	5
Evansville, Ind.-----	34	22	1	1	Tucson, Ariz.-----	38	20	1	1
Flint, Mich.-----	59	29	2	7	PACIFIC:	1,478	874	34	51
Fort Wayne, Ind.-----	38	21	1	2	Berkeley, Calif.-----	14	11	-	-
Gary, Ind.-----	50	26	3	2	Fresno, Calif.-----	50	25	-	2
Grand Rapids, Mich.-----	50	35	4	1	Glendale, Calif.-----	23	12	-	1
Indianapolis, Ind.-----	171	87	5	10	Honolulu, Hawaii-----	47	20	-	5
Madison, Wis.-----	33	19	-	4	Long Beach, Calif.-----	91	56	1	8
Milwaukee, Wis.-----	111	64	2	8	Los Angeles, Calif.-----	468	265	12	12
Peoria, Ill.-----	36	20	-	3	Oakland, Calif.-----	79	46	1	8
Rockford, Ill.-----	37	25	3	2	Pasadena, Calif.-----	33	24	-	-
South Bend, Ind.-----	47	30	1	2	Portland, Oreg.-----	99	60	1	1
Toledo, Ohio-----	124	83	4	-	Sacramento, Calif.-----	45	29	2	1
Youngstown, Ohio-----	66	36	-	1	San Diego, Calif.-----	79	49	1	2
WEST NORTH CENTRAL:	791	468	10	48	San Francisco, Calif.-----	199	113	4	3
Des Moines, Iowa-----	45	36	-	2	San Jose, Calif.-----	33	19	1	3
Duluth, Minn.-----	23	15	-	2	Seattle, Wash.-----	125	76	5	4
Kansas City, Kans.-----	33	18	1	6	Spokane, Wash.-----	51	39	2	-
Kansas City, Mo.-----	105	63	-	4	Tacoma, Wash.-----	42	30	4	1
Lincoln, Nebr.-----	22	13	-	-	Total	12,035	6,901	347	579
Minneapolis, Minn.-----	103	50	1	4	Cumulative Totals				
Omaha, Nebr.-----	81	44	1	7	including reported corrections for previous weeks				
St. Louis, Mo.-----	268	158	2	19	All Causes, All Ages -----	317,073			
St. Paul, Minn.-----	68	51	5	1	All Causes, Age 65 and over-----	182,746			
Wichita, Kans.-----	43	20	-	3	Pneumonia and Influenza, All Ages-----	11,942			
					All Causes, Under 1 Year of Age-----	15,857			



3 1262 08864 2086

MALARIA - 1966 (Continued from page 203)

Among the 115 non-military cases, several distinct groups are notable. Thirty cases occurred in former Peace Corps volunteers, as compared with 17 in 1965 and 5 in 1964. All but one of the volunteers had served in West Africa. Twenty cases in seamen were reported, 16 of whom were U.S. citizens. Missionaries and their dependents accounted for 7 cases, compared with 5 in 1965. Thirty malaria cases occurred among foreign visitors to the U.S.; 14 were in foreign students and 2 in foreign physicians who had onsets while receiving medical training in this country.

Malaria infections acquired in Vietnam accounted for 538 of the 678 imported cases (79.9 percent). *P. vivax* was the etiologic agent in 315 of these 538 cases (58.5 percent), *P. falciparum* in 177 cases (33.0 percent), and *P. malariae* in 6 cases (1.1 percent). Six cases had a mixed infection (1.1 percent), and in 34 cases the plasmodium species was not identified (6.3 percent). Fifty-eight percent of the 525 cases for which the information was available had a history of malaria while in Vietnam. In 62 persons the malaria infection acquired in Vietnam did not result in clinical illness until after discharge from the military service.

Four deaths due to malaria were reported. Three servicemen died within one month of return from Vietnam. The fourth death occurred in a Negro minister from Florida who had visited in West Africa; he had taken no malaria chemoprophylaxis and no precautions against mosquitoes (MMWR, Vol. 15, No. 32).

Only five cases of malaria were acquired in the U.S. Two cases of introduced malaria occurred in 5- and 3-year-old siblings from Fort Knox, Kentucky, in May 1966; the etiologic agent was *P. vivax* (MMWR, Vol. 15, No. 21). One case of congenital malaria due to *P. malariae* was detected in August in Chicago (MMWR, Vol. 15, No. 34). A case of induced falciparum malaria occurred in a 64-year-old man in New York City following a blood transfusion (MMWR, Vol. 15, No. 52). A case classified as "cryptic" (an isolated case of malaria in which there is no clear mode of transmission and no secondary cases) occurred in a 32-year-old male nurse in a military hospital in St. Albans, New York (MMWR, Vol. 16, No. 15).

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER
 CHIEF, EPIDEMIOLOGY PROGRAM
 ACTING CHIEF, STATISTICS SECTION

OAVIO J. SENCER, M.O.
 A.O. LANGMUIR, M.O.
 IOA L. SHERMAN, M.S.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS, WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
 MORBIDITY AND MORTALITY WEEKLY REPORT
 NATIONAL COMMUNICABLE DISEASE CENTER
 ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U.S. DEPARTMENT OF
 HEALTH, EDUCATION, AND WELFARE
 PUBLIC HEALTH SERVICE
 BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL
 NATIONAL
 COMMUNICABLE DISEASE CENTER
 ATLANTA, GEORGIA 30333
 OFFICIAL BUSINESS

UNIV. OF FL. LIB.
 DOCUMENTS DEPT.

U.S. DEPOSITORY

POSTAGE AND FEES PAID
 U. S. DEPARTMENT OF H. E. W.